

Appendix C

Cost Analysis Breakdown

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January, 2004	Preliminary Alternatives	2
May, 2004	Detailed Alternatives	15

Cost Estimate Preliminary Alternatives

Alternative 1

	Amount	
10400 South Bangerter-Redwood	\$22,100,000	
10400 South Redwood-I15	\$23,200,000	
11400 South	\$84,000,000	
12300 South	\$59,000,000	
State St. Widening	\$12,300,000	
11000 S underpass	\$11,000,000	
11800 S overpass	\$6,900,000	
Realign Jordan Gateway at 10600 South	\$14,300,000	
Total Cost	\$232,800,000	USE \$235,000,000

Alternative 2

	Amount	
10400 South Bangerter-Redwood	\$22,100,000	
10400 South Redwood-I15	\$23,200,000	
12300 South	\$59,000,000	
11400 South SPUI	\$26,700,000	
Modifications to 10600 South Interchange	\$4,900,000	
Total Cost	\$135,900,000	USE \$135,000,000

Alternative 3A

	Amount	
10400 South Bangerter-Redwood	\$22,100,000	
10400 South Redwood-I15	\$23,200,000	
12300 South	\$59,000,000	
11000 S underpass	\$11,000,000	
11800 S overpass	\$6,900,000	
Jordan Gateway Widening	\$23,500,000	
Realign Jordan Gateway at 10600 South	\$14,300,000	
Modifications to 10600 South Interchange	\$4,900,000	
Total Cost	\$164,900,000	USE \$165,000,000

Alternative 3B

	Amount	
10400 South Bangerter-Redwood	\$22,100,000	
10400 South Redwood-I15	\$23,200,000	
12300 South	\$59,000,000	
11000 S underpass	\$11,000,000	
11800 S overpass	\$6,900,000	
Jordan Gateway Widening	\$23,500,000	
Realign Jordan Gateway at 10600 South	\$14,300,000	
Modifications to 10600 South Interchange	\$4,900,000	
Revise Mountain View Corridor to 10 lane freeway	\$350,000,000	
Make Bangerter Highway a 6 lane freeway	\$690,000,000	
Total Cost	\$1,204,900,000	USE \$1,205,000,000

Alternative 3C

	Amount	
10400 South Bangerter-Redwood	\$22,100,000	
10400 South Redwood-I15	\$23,200,000	
12300 South	\$59,000,000	
11000 S underpass	\$11,000,000	
11800 S overpass	\$6,900,000	
Jordan Gateway Widening	\$23,500,000	
Realign Jordan Gateway at 10600 South	\$14,300,000	
Modifications to 10600 South Interchange	\$4,900,000	
Revise Mountain View Corridor to 10 lane freeway	\$350,000,000	
Total Cost	\$514,900,000	USE \$515,000,000

Alternative 4

	Amount	
10400 South Bangerter-Redwood	\$4,420,000	
10400 South Redwood-I15	\$23,200,000	
11400 South	\$84,000,000	
11400 South SPUI	\$26,700,000	
Modifications to 10600 South Interchange	\$4,900,000	
Intersection improvements to Jordan Gateway	\$700,000	
Total Cost	\$143,920,000	USE \$145,000,000

Alternative 5

	Amount	
10400 South Bangerter-Redwood	\$4,420,000	
10400 South Redwood-I15	\$23,200,000	
11400 South/11800 South	\$118,900,000	
11400 South SPUI	\$26,700,000	
Modifications to 10600 South Interchange	\$4,900,000	
Intersection improvements to Jordan Gateway	\$700,000	
Bangerter Interchange @ 11800 South	\$23,000,000	
Total Cost	\$201,820,000	USE \$200,000,000

Alternative 6

	Amount	
10400 South Bangerter-Redwood	\$4,420,000	
10400 South Redwood-I15	\$23,200,000	
11400 South	\$84,000,000	
Intersection improvements to Jordan Gateway	\$700,000	
Add one-way frontage roads along I-15	\$65,200,000	
Widen 12300 South from Lone Peak Parkway to State Street	\$10,000,000	
Total Cost	\$187,520,000	USE \$190,000,000

Alternative 7

	Amount	
10400 South Bangerter-Redwood	\$4,420,000	
10400 South Redwood-I15	\$23,200,000	
11400 South	\$84,000,000	
Jordan Gateway Widening	\$23,500,000	
Realign Jordan Gateway at 10600 South	\$14,300,000	
Modifications to 10600 South Interchange	\$4,900,000	
Total Cost	\$154,320,000	USE \$155,000,000

Alternative 8

	Amount	
Park and Ride lots for 500 spaces	\$3,000,000	
Right of way for park and ride lots	\$2,000,000	
Additional UTA busses (20 at \$300,000 per bus)	\$6,000,000	
Present worth of annual operating cost for 30 yrs (\$5,700,000/year)	\$69,983,000	
Total Cost	\$80,983,000	USE \$80,000,000

Alternative 9

	Amount	
10400 South Bangerter-Redwood	\$22,100,000	
10400 South Redwood-I15	\$23,200,000	
12300 South	\$59,000,000	
Add one-way frontage roads along I-15	\$65,200,000	
Realign Jordan Gateway at 10600 South	\$14,300,000	
11000 S underpass	\$11,000,000	
11800 S overpass	\$6,900,000	
Revise Mountain View Corridor to 10 lane freeway	\$350,000,000	
Make Bangerter Highway a 6 lane freeway	\$690,000,000	
Total Cost	\$1,241,700,000	USE \$1,240,000,000

Cost Estimate Detailed Alternatives

Alternative 1

	Amount	
10400 South Bangerter-Redwood	\$11,307,760	
10400 South Redwood-I15	\$22,561,343	
11400 South Bangerter-2700 W	\$11,010,913	
11400 South 2700 W-Redwood Rd	\$8,060,850	
11400 South Redwood Rd-1300 W	\$4,739,601	
11400 South 1300 W-Jordan Gateway	\$44,986,393	
11400 South Jordan Gateway-State St.	\$17,716,710	
12300 South	\$58,796,621	
State St. Widening	\$6,768,859	
11000 S underpass	\$9,766,721	
11800 S overpass	\$6,051,142	
10600 South I-15 Triple Left	\$6,301,589	
Total Cost	\$208,068,502	USE \$208,000,000

Alternative 3A

	Amount	
10400 South Bangerter-Redwood	\$11,307,760	
10400 South Redwood-I15	\$22,561,343	
11400 South Jordan Gateway-State St.	\$17,716,710	
12300 South	\$58,796,621	
Jordan Gateway Widening	\$34,874,346	
11000 S underpass	\$9,766,721	
11800 S overpass	\$6,051,142	
10600 South I-15 Triple Left	\$6,301,589	
Total Cost	\$167,376,231	USE \$167,000,000

Alternative 4

	Amount	
10400 South River Front Parkway to I15	\$6,952,900	
11400 South Bangerter-2700 W	\$11,010,913	
11400 South 2700 W-Redwood Rd	\$8,060,850	
11400 South Redwood Rd-1300 W	\$4,739,601	
11400 South 1300 W-Jordan Gateway	\$44,986,393	
11400 South Jordan Gateway-State St.	\$17,716,710	
11400 South SPUI	\$22,334,029	
10600 South I-15 Triple Left	\$6,301,589	
Total Cost	\$122,102,986	USE \$122,000,000

Alternative 7

	Amount	
10400 South Redwood-I15	\$22,561,343	
11400 South Bangerter-2700 W	\$11,010,913	
11400 South 2700 W-Redwood Rd	\$8,060,850	
11400 South Redwood Rd-1300 W	\$4,739,601	
11400 South 1300 W-Jordan Gateway	\$44,986,393	
11400 South Jordan Gateway-State St.	\$17,716,710	
Jordan Gateway Widening	\$34,874,346	
10600 South I-15 Triple Left	\$6,301,589	
Total Cost	\$150,251,745	USE \$150,000,000

11400 South EIS

10400 Bangerter to Redwood Cost Estimate

2005
4%

Updated: 5/13/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$370,919	
	Removals	2 miles		\$240,000.00	\$259,200.00	\$518,400	
023160020	Roadway Excavation	27535 yd ³		\$3.18	\$3.43	\$94,566	
020560010	Borrow	0 yd ³		\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	264336 ft ²		\$2.50	\$2.70	\$713,707	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	22028 ft		\$7.50	\$8.10	\$178,427	
027760010	Concrete Sidewalk	110140 ft ²		\$1.75	\$1.89	\$208,165	
028410040	Concrete Wall Barrier	0 ft		\$31.28	\$33.78	\$0	
	Bridges	0 lump		\$0.00	\$0.00	\$0	
	Minor Structures	1 lump		\$140,912.00	\$152,184.96	\$152,185	
	Retaining Walls	1802 ft ²		\$35.00	\$37.80	\$68,116	
	Lighting	2 miles		\$200,000.00	\$216,000.00	\$432,000	
	Signals	3 each		\$80,000.00	\$86,400.00	\$259,200	
	Drainage	1 lump		\$246,000.00	\$265,680.00	\$265,680	
	Signing / Striping	2 miles		\$100,000.00	\$108,000.00	\$216,000	
	RR Reconstruction	0 lump		\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20% lump				\$927,297	
	MOT / Temporary Traffic Control (5%)	5% lump				\$231,824	
					Total Construction Cost	\$4,636,486	
	Preconstruction Engineering Cost (9%)					\$417,284	
	Construction Engineering Cost (6%)					\$278,189	
	Municipal Utility Relocation Costs	1 lump		\$2,085,000.00	\$2,251,800.00	\$2,251,800	
	RIGHT OF WAY	1 lump		\$3,448,150	\$3,724,001.62	\$3,724,002	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 with 4 % inflation **\$11,307,760**

11400 South EIS

10400 South Redwood to I-15

2005
4%

Updated: 10/15/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$903,189	
	Removals	2.4 miles		\$200,000.00	\$216,000.00	\$518,400	
023160020	Roadway Excavation	48980 yd ³		\$3.18	\$3.43	\$168,217	
020560010	Borrow	0 yd ³		\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	446478 ft ²		\$2.50	\$2.70	\$1,205,491	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	25624 ft		\$7.50	\$8.10	\$207,554	
027760010	Concrete Sidewalk	157665 ft ²		\$1.75	\$1.89	\$297,987	
028410040	Concrete Wall Barrier	0 ft		\$31.28	\$33.78	\$0	
	Bridges	1 lump		\$2,560,600.00	\$2,765,448.00	\$2,765,448	
	Minor Structures	1 lump		\$209,050.00	\$225,774.00	\$225,774	
	Retaining Walls	16276 ft ²		\$35.00	\$37.80	\$615,236	
	Lighting	2.4 miles		\$200,000.00	\$216,000.00	\$518,400	
	Signals	4 each		\$80,000.00	\$86,400.00	\$345,600	
	Drainage	1 lump		\$300,000.00	\$324,000.00	\$324,000	
	Signing / Striping	2.4 miles		\$100,000.00	\$108,000.00	\$259,200	
	RR Reconstruction	0 lump		\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20% lump				\$2,257,972	
	MOT / Temporary Traffic Control (6%)	6% lump				\$677,392	
					Total Construction Cost	\$11,289,859	
	Preconstruction Engineering Cost (9%)					\$1,016,087	
	Construction Engineering Cost (6%)					\$677,392	
	Municipal Utility Relocation Costs	1 lump		\$2,024,500.00	\$2,186,460.00	\$2,186,460	
	RIGHT OF WAY	1 lump		\$6,844,023	\$7,391,544.44	\$7,391,544	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 with 4 % inflation **\$22,561,343**

11400 South EIS

10400 South River Front Parkway to I-15

**2005
4%**

Updated: 9/7/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$359,837	
	Removals	0.7 miles		\$70,000.00	\$75,600.00	\$52,920	
023160020	Roadway Excavation	14694 yd ³		\$3.18	\$3.43	\$50,465	
020560010	Borrow	0 yd ³		\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	86736 ft ²		\$2.50	\$2.70	\$234,187	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	14456 ft		\$7.50	\$8.10	\$117,094	
027760010	Concrete Sidewalk	41320 ft ²		\$1.75	\$1.89	\$78,095	
028410040	Concrete Wall Barrier	0 ft		\$31.28	\$33.78	\$0	
	Bridges	1 lump		\$1,535,600.00	\$1,658,448.00	\$1,658,448	
	Minor Structures	1 lump		\$126,575.00	\$136,701.00	\$136,701	
	Retaining Walls	3979 ft ²		\$35.00	\$37.80	\$150,422	
	Lighting	0.7 miles		\$200,000.00	\$216,000.00	\$151,200	
	Signals	2 each		\$80,000.00	\$86,400.00	\$172,800	
	Drainage	1 lump		\$84,000.00	\$90,720.00	\$90,720	
	Signing / Striping	0.7 miles		\$100,000.00	\$108,000.00	\$75,600	
	RR Reconstruction	0 lump		\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20% lump				\$899,591	
	MOT / Temporary Traffic Control (6%)	6% lump				\$269,877	
					Total Construction Cost	\$4,497,957	
	Preconstruction Engineering Cost (9%)					\$404,816	
	Construction Engineering Cost (6%)					\$269,877	
	Municipal Utility Relocation Costs	1 lump		\$607,350.00	\$655,938.00	\$655,938	
	RIGHT OF WAY	1 lump		\$1,041,029	\$1,124,311.72	\$1,124,312	R/W Costs are calculated for yr 2005 @ 4% Anl Infl

**Total for year 2005
with 4 % inflation**

\$6,952,900

11400 South EIS

11400 S. Bangerter to 2700 W. Cost Estimate

2005
4%

Updated: 5/13/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$410,001	
	Removals	1.40	miles	\$100,000.00	\$108,000.00	\$151,200	
023160020	Roadway Excavation	51342	yd ³	\$3.18	\$3.43	\$176,329	
020560010	Borrow	0	yd ³	\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	547600	ft ²	\$2.50	\$2.70	\$1,478,520	
204000010	PCCP	0	ft ²	\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	14800	ft	\$7.50	\$8.10	\$119,880	
027760010	Concrete Sidewalk	74000	ft ²	\$1.75	\$1.89	\$139,860	
028410040	Concrete Wall Barrier	0	ft	\$31.28	\$33.78	\$0	
	Bridges	0	lump	\$0.00	\$0.00	\$0	
	Minor Structures	1	lump	\$154,640.00	\$167,011.20	\$167,011	
	Retaining Walls	1	lump	\$0.00	\$0.00	\$0	
	Lighting	1.4	Miles	\$200,000.00	\$216,000.00	\$302,400	
	Signals	2	each	\$80,000.00	\$86,400.00	\$172,800	
	Drainage	1.4	mile	\$380,000.00	\$410,400.00	\$574,560	
	Signing / Striping	1.4	Miles	\$100,000.00	\$108,000.00	\$151,200	
	RR Reconstruction	0	lump	\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20%	lump			\$1,025,003	
	MOT / Temporary Traffic Control (5%)	5%	lump			\$256,251	
					Total Construction Cost	\$5,125,015	
	Preconstruction Engineering Cost (9%)					\$461,251	
	Construction Engineering Cost (6%)					\$307,501	
	Municipal Utility Relocation Costs	1	lump	\$1,908,000.00	\$2,060,640.00	\$2,060,640	
	RIGHT OF WAY	1	lump	\$2,830,098	\$3,056,506.01	\$3,056,506	R/W Costs are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005
with 4 % inflation

\$11,010,913

11400 South EIS

11400 S. 2700 W. to Redwood Rd.

**2005
4%**

Updated: 5/14/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$317,997	
	Removals	1.00 miles		\$100,000.00	\$108,000.00	\$108,000	
023160020	Roadway Excavation	42325 yd ³		\$3.18	\$3.43	\$145,361	
020560010	Borrow	0 yd ³		\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	392200 ft ²		\$2.50	\$2.70	\$1,058,940	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	10600 ft		\$7.50	\$8.10	\$85,860	
027760010	Concrete Sidewalk	53000 ft ²		\$1.75	\$1.89	\$100,170	
028410040	Concrete Wall Barrier	0 ft		\$31.28	\$33.78	\$0	
	Bridges	0 lump		\$0.00	\$0.00	\$0	
	Minor Structures	1 lump		\$281,800.00	\$304,344.00	\$304,344	
	Retaining Walls	1 lump		\$0.00	\$0.00	\$0	
	Lighting	1.0 miles		\$200,000.00	\$216,000.00	\$216,000	
	Signals	1 each		\$80,000.00	\$86,400.00	\$86,400	
	Drainage	1.00 mile		\$380,000.00	\$410,400.00	\$410,400	
	Signing / Striping	1.0 miles		\$100,000.00	\$108,000.00	\$108,000	
	RR Reconstruction	0 lump		\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20% lump				\$794,992	
	MOT / Temporary Traffic Control (6%)	6% lump				\$238,498	
					Total Construction Cost	\$3,974,962	
	Preconstruction Engineering Cost (9%)					\$357,747	
	Construction Engineering Cost (6%)					\$238,498	
	Municipal Utility Relocation Costs	1 lump		\$1,169,200	\$1,262,736.00	\$1,262,736	
	RIGHT OF WAY	1 lump		\$2,061,952	\$2,226,907.71	\$2,226,908	

**Total for year 2005
with 4 % inflation**

\$8,060,850

11400 South EIS

11400 S. Redwood to 1300 W Cost Estimate

**2005
4%**

Updated: 5/13/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$176,239	
	Removals	0.50	miles	\$100,000.00	\$108,000.00	\$54,000	
023160020	Roadway Excavation	20046	yd ³	\$3.18	\$3.43	\$68,846	
020560010	Borrow	0	yd ³	\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	199800	ft ²	\$2.50	\$2.70	\$539,460	
204000010	PCCP	0	ft ²	\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	5400	ft	\$7.50	\$8.10	\$43,740	
027760010	Concrete Sidewalk	27000	ft ²	\$1.75	\$1.89	\$51,030	
028410040	Concrete Wall Barrier	0	ft	\$31.28	\$33.78	\$0	
	Bridges	1	lump	\$0.00	\$0.00	\$0	
	Minor Structures	1	lump	\$225,275.00	\$243,297.00	\$243,297	
	Retaining Walls	1	lump	\$0.00	\$0.00	\$0	
	Lighting	0.5	miles	\$200,000.00	\$216,000.00	\$108,000	
	Signals	1	each	\$80,000.00	\$86,400.00	\$86,400	
	Drainage	0.5	mile	\$380,000.00	\$410,400.00	\$205,200	
	Signing / Striping	0.5	miles	\$100,000.00	\$108,000.00	\$54,000	
	RR Reconstruction	0	lump	\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20%	lump			\$440,598	
	MOT / Temporary Traffic Control (6%)	6%	lump			\$132,179	
					Total Construction Cost	\$2,202,989	
	Preconstruction Engineering Cost (9%)					\$198,269	
	Construction Engineering Cost (6%)					\$132,179	
	Municipal Utility Relocation Costs	1	lump	\$631,250	\$681,750.00	\$681,750	
	RIGHT OF WAY	1	lump	\$1,411,493	\$1,524,412.89	\$1,524,413	

**Total for year 2005
with 4 % inflation**

\$4,739,601

11400 South EIS

11400 S. 1300 W. to Jordan Gateway Cost Estimate

**2005
4%**

Updated: 10/15/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$2,435,677	
	Removals	1.60	mile	\$100,000.00	\$108,000.00	\$172,800	
023160020	Roadway Excavation	97440	yd ³	\$3.18	\$3.43	\$334,648	
020560010	Borrow	152757	yd ³	\$5.68	\$6.13	\$937,073	
027850065	Asphalt Pavement	692024	ft ²	\$2.50	\$2.70	\$1,868,465	
204000010	PCCP	0	ft ²	\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	21700	ft	\$7.50	\$8.10	\$175,770	
027760010	Concrete Sidewalk	113200	ft ²	\$1.75	\$1.89	\$213,948	
028410040	Concrete Wall Barrier	0	ft	\$31.28	\$33.78	\$0	
	Bridges	1	lump	\$7,974,500.00	\$8,612,460.00	\$8,612,460	I-15 crossing only - no SPUI
	Minor Structures	1	lump	\$65,696.00	\$70,951.68	\$70,952	
	Retaining Walls	1	lump	\$3,322,843.00	\$3,588,670.44	\$3,588,670	
	Lighting	1.6	miles	\$200,000.00	\$216,000.00	\$345,600	
	Signals	3	each	\$80,000.00	\$86,400.00	\$259,200	
	Drainage	1.6	mile	\$380,000.00	\$410,400.00	\$656,640	
	Signing / Striping	1.6	miles	\$100,000.00	\$108,000.00	\$172,800	
	RR Reconstruction	1	lump	\$2,486,400.00	\$2,685,312.00	\$2,685,312	
	20% Contingency for Construction Cost	20%	lump			\$6,089,193	
	MOT / Temporary Traffic Control (6%)	6%	lump			\$1,826,758	
					Total Construction Cost	\$30,445,966	
	Preconstruction Engineering Cost (9%)					\$2,740,137	
	Construction Engineering Cost (6%)					\$1,826,758	
	Municipal Utility Relocation Costs	1	lump	\$2,495,650	\$2,695,302.00	\$2,695,302	
	RIGHT OF WAY	1	lump	\$6,739,103	\$7,278,230.86	\$7,278,231	

**Total for year 2005
with 4 % inflation**

\$44,986,393

11400 South EIS

11400 S. Jordan Gateway to State St. Cost Estimate

**2005
4%**

Updated: 5/14/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$686,531	
	Removals	0.60	mile	\$100,000.00	\$108,000.00	\$64,800	
023160020	Roadway Excavation	36202	yd ³	\$3.18	\$3.43	\$124,332	
020560010	Borrow	0	yd ³	\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	258300	ft ²	\$2.50	\$2.70	\$697,410	
204000010	PCCP	0	ft ²	\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	6300	ft	\$7.50	\$8.10	\$51,030	
027760010	Concrete Sidewalk	31500	ft ²	\$1.75	\$1.89	\$59,535	
028410040	Concrete Wall Barrier	0	ft	\$31.28	\$33.78	\$0	
	Bridges	1	lump	\$3,516,750.00	\$3,798,090.00	\$3,798,090	
	Minor Structures	1	lump	\$315,800.00	\$341,064.00	\$341,064	
	Retaining Walls	1	lump	\$0.00	\$0.00	\$0	
	Lighting	0.6	Miles	\$200,000.00	\$216,000.00	\$129,600	
	Signals	2	each	\$80,000.00	\$86,400.00	\$172,800	
	Drainage	0.6	mile	\$380,000.00	\$410,400.00	\$246,240	
	Signing / Striping	0.6	Miles	\$100,000.00	\$108,000.00	\$64,800	
	RR Reconstruction	0	lump	\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20%	lump			\$1,716,329	
	MOT / Temporary Traffic Control (5%)	5%	lump			\$429,082	
					Total Construction Cost	\$8,581,644	
	Preconstruction Engineering Cost (9%)					\$772,348	
	Construction Engineering Cost (6%)					\$514,899	
	Municipal Utility Relocation Costs	1	lump	\$666,500.00	\$719,820.00	\$719,820	
	RIGHT OF WAY*	1	lump	\$6,600,000	\$7,128,000.00	\$7,128,000	R/W Costs are calculated for yr 2005 @ 4% Anl Infl

**Total for year 2005
with 4 % inflation**

\$17,716,710

*Includes previously purchased R/W

11400 South EIS

11400 SPUI Cost Estimate

Includes bridge, ramps & I-15 Auxiliary Lanes from 10600 S to 11400 S

2005
4%

Updated: 5/13/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%	lump			\$1,239,326	
	Removals	1	miles	\$100,000.00	\$108,000.00	\$108,000	
023160020	Roadway Excavation	18000	yd ³	\$3.18	\$3.43	\$61,819	
020560010	Borrow	75000	yd ³	\$5.68	\$6.13	\$460,080	
027850065	PCCP - ramps	240000	ft ²	\$3.00	\$3.24	\$777,600	
204000010	PCCP - mainline	884600	ft ²	\$3.50	\$3.78	\$3,343,788	
027710025	Concrete Curb & Gutter Type B1	7500	ft	\$7.50	\$8.10	\$60,750	
027760010	Concrete Sidewalk	0	ft ²	\$1.75	\$1.89	\$0	
028410040	Concrete Wall Barrier	17400	ft	\$31.28	\$33.78	\$587,814	
	Additional cost for SPUI bridge	1	lump	\$2,208,250.00	\$2,384,910.00	\$2,384,910	Difference between SPUI and overpass
	Minor Structures	1	lump	\$0.00	\$0.00	\$0	
	Retaining Walls	43872	ft ²	\$35.00	\$37.80	\$1,658,362	
	Lighting	1	lump		\$0.00	\$0	
	Signals	1	each	\$80,000.00	\$86,400.00	\$86,400	
	Drainage	1	lump	\$500,000.00	\$540,000.00	\$540,000	
	Signing / Striping	1	lump	\$0.00	\$0.00	\$0	
	RR Reconstruction	0	lump	\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20%				\$3,098,315	
	MOT / Temporary Traffic Control (7%)	7%				\$1,084,410	
					Total Construction Cost	\$15,491,573	
	Preconstruction Engineering Cost (9%)					\$1,394,241.59	
	Construction Engineering Cost (6%)					\$929,494.39	
	Municipal Utility Relocation Costs	1	lump	\$184,000.00	\$198,720.00	\$198,720	
	RIGHT OF WAY	1	lump	\$4,000,000.00	\$4,320,000.00	\$4,320,000	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 **\$22,334,029**
with 4 % inflation

11400 South EIS

12300 South Bangerter to I-15 Cost Estimate

2005
4%

Updated: 5/14/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$1,960,872	
	Removals	5 mile		\$100,000.00	\$108,000.00	\$545,400	
023160020	Roadway Excavation	106187 yd ³		\$3.18	\$3.43	\$364,687	
020560010	Borrow	23467 yd ³		\$5.68	\$6.13	\$143,954	
027850065	Asphalt Pavement	1940554 ft ²		\$2.50	\$2.70	\$5,239,496	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	53290 ft		\$7.50	\$8.10	\$431,649	
027760010	Concrete Sidewalk	270534 ft ²		\$1.75	\$1.89	\$511,309	
028410040	Concrete Wall Barrier	0 ft		\$31.28	\$33.78	\$0	
	Bridges	1 lump		\$3,362,800.00	\$3,631,824.00	\$3,631,824	
	Minor Structures	1 lump		\$329,960.00	\$356,356.80	\$356,357	
	Retaining Walls	21903 ft ²		\$35.00	\$37.80	\$827,945	
	Lighting	5 mile		\$200,000.00	\$216,000.00	\$1,090,800	
	Signals	9 each		\$80,000.00	\$86,400.00	\$777,600	
	Drainage	1 lump		\$606,000.00	\$654,480.00	\$654,480	
	Signing / Striping	5 mile		\$100,000.00	\$108,000.00	\$545,400	
	RR Reconstruction	1 lump		\$1,205,000.00	\$1,301,400.00	\$1,301,400	
	20% Contingency for Construction Cost	20% lump				\$4,902,179	
	MOT / Temporary Traffic Control (5%)	5% lump				\$1,225,545	
					Total Construction Cost	\$24,510,897	
	Preconstruction Engineering Cost (9%)					\$2,205,981	
	Construction Engineering Cost (6%)					\$1,470,654	
	Municipal Utility Relocation Costs	1 lump		\$4,835,000.00	\$5,221,800.00	\$5,221,800	
	RIGHT OF WAY	1 lump		\$23,506,749.00	\$25,387,288.92	\$25,387,289	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

**Total for year 2005
with 4 % inflation**

\$58,796,621

11400 South EIS

State Street Widening Cost Estimate

**2005
4%**

Updated: 5/14/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	1	lump	\$280,000.00	\$302,400.00	\$302,400	
	Removals	1.4	miles	\$140,000.00	\$151,200.00	\$211,680	
023160020	Roadway Excavation	17409	yd ³	\$3.18	\$3.43	\$59,789	
020560010	Borrow	0	yd ³	\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	170280	ft ²	\$2.50	\$2.70	\$459,756	
204000010	PCCP	0	ft ²		\$0.00	\$0	
027710025	Concrete Curb & Gutter Type B1	14190	ft	\$7.50	\$8.10	\$114,939	
027760010	Concrete Sidewalk	70950	ft ²	\$1.75	\$1.89	\$134,096	
028410040	Concrete Wall Barrier	0	ft	\$31.28	\$33.78	\$0	
	Bridges	0	lump	\$0.00	\$0.00	\$0	
	Minor Structures	0	lump	\$0.00	\$0.00	\$0	
	Retaining Walls	0	lump	\$0.00	\$0.00	\$0	
	Lighting	1.4	miles	\$200,000.00	\$216,000.00	\$302,400	
	Signals	3	each	\$80,000.00	\$86,400.00	\$259,200	
	Drainage	1	lump	\$168,000.00	\$181,440.00	\$181,440	
	Signing / Striping	1.4	miles	\$100,000.00	\$108,000.00	\$151,200	
	RR Reconstruction	0	lump	\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost				\$0.00	\$435,380	
	MOT / Temporary Traffic Control (6%)				\$0.00	\$156,737	
					Total Construction Cost	\$2,769,017	
	Preconstruction Engineering Cost (9%)					\$235,105	
	Construction Engineering Cost (6%)					\$156,737	
	Municipal Utility Relocation Costs	1	lump	\$1,491,000.00	\$1,610,280.00	\$1,610,280	
	RIGHT OF WAY	1	lump	\$1,611,065.00	\$1,997,720.60	\$1,997,721	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 \$6,768,859
with 4 % inflation

11400 South EIS

Jordan Gateway - 10600 S. to 12300 S. (6 lanes) Cost Estimate

2005
4%

Updated: 5/13/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$1,551,238	
	Removals	2.7 miles		\$270,000.00	\$291,600.00	\$787,320	
023160020	Roadway Excavation	185897 yd ³		\$3.18	\$3.43	\$638,445	
020560010	Borrow	179103 yd ³		\$5.68	\$6.13	\$1,098,689	
027850065	Asphalt Pavement	418020 ft ²		\$2.50	\$2.70	\$1,128,654	
204000010	PCCP	685396 ft ²		\$3.50	\$3.78	\$2,590,797	
027710025	Concrete Curb & Gutter Type B1	28292 ft		\$3.00	\$3.24	\$91,666	
027760010	Concrete Sidewalk	141460 ft ²		\$1.75	\$1.89	\$267,359	
028410040	Concrete Wall Barrier	0 ft		\$31.28	\$33.78	\$0	
	Bridges	1 lump		\$2,228,000.00	\$2,406,240.00	\$2,406,240	
	Minor Structures	1 lump		\$0.00	\$0.00	\$0	
	Retaining Walls	1 lump		\$468,825.00	\$506,331.00	\$506,331	
	Lighting	2.7 miles		\$200,000.00	\$216,000.00	\$583,200	
	Signals	3 each		\$80,000.00	\$86,400.00	\$259,200	
	Drainage	1 lump		\$324,000.00	\$349,920.00	\$349,920	
	Signing / Striping	2.7 miles		\$100,000.00	\$108,000.00	\$291,600	
	RR Reconstruction	1 lump		\$1,306,000.00	\$1,410,480.00	\$1,410,480	
	20% Contingency for Construction Cost	20% lump				\$3,878,094	
	MOT / Temporary Traffic Control (8%)	8% lump				\$1,551,238	
					Total Construction Cost	\$19,390,471	
	Preconstruction Engineering Cost (9%)					\$1,745,142	
	Construction Engineering Cost (6%)					\$1,163,428	
	Municipal Utility Relocation Costs	1 lump		\$923,000.00	\$996,840.00	\$996,840	
	RIGHT OF WAY	1 lump		\$10,720,800	\$11,578,464.00	\$11,578,464	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 \$34,874,346
with 4 % inflation

11400 South EIS

11000 Underpass Cost Estimate

**2005
4%**

Updated: 5/14/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$550,264	
	Removals	0.3 miles		\$30,000.00	\$32,400.00	\$9,720	
023160020	Roadway Excavation	13000 yd ³		\$3.18	\$3.43	\$44,647	
020560010	Borrow	0 yd ³		\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	57504 ft ²		\$2.50	\$2.70	\$155,261	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	2588 ft		\$7.50	\$8.10	\$20,963	
027760010	Concrete Sidewalk	15528 ft ²		\$1.75	\$1.89	\$29,348	
028410040	Concrete Wall Barrier	600 ft		\$31.28	\$33.78	\$20,269	
	Bridges	1 lump		\$1,958,580.00	\$2,115,266.40	\$2,115,266	
	Minor Structures	0 lump		\$0.00	\$0.00	\$0	
	Retaining Walls	21000 ft ²		\$70.00	\$75.60	\$1,587,600	
	Lighting	0.3 miles		\$200,000.00	\$216,000.00	\$54,000	
	Signals	2 each		\$80,000.00	\$86,400.00	\$172,800	
	Drainage	1 lump		\$150,000.00	\$162,000.00	\$162,000	
	Signing / Striping	0.3 miles		\$100,000.00	\$108,000.00	\$30,240	
	RR Reconstruction	0 lump		\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20% lump				\$1,375,661	
	MOT / Temporary Traffic Control (7%)	8% lump				\$550,264	
					Total Construction Cost	\$6,878,304	
	Preconstruction Engineering Cost (9%)					\$619,047	
	Construction Engineering Cost (6%)					\$412,698	
	Municipal Utility Relocation Costs	1 lump		\$220,000.00	\$237,600.00	\$237,600	
	RIGHT OF WAY	1 lump		\$1,499,140	\$1,619,071.20	\$1,619,071	R/W Costs are calculated for yr 2005 @ 4% Anl Infl

**Total for year 2005
with 4 % inflation**

\$9,766,721

11400 South EIS

11800 Overpass Cost Estimate

**2005
4%**

Updated: 5/14/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$282,111	
	Removals	0.3 miles		\$30,000.00	\$32,400.00	\$9,720	
023160020	Roadway Excavation	16295 yd ³		\$3.18	\$3.43	\$55,964	
020560010	Borrow	0 yd ³		\$5.68	\$6.13	\$0	
027850065	Asphalt Pavement	104480 ft ²		\$2.50	\$2.70	\$282,096	
204000010	PCCP	0 ft ²		\$3.50	\$3.78	\$0	
027710025	Concrete Curb & Gutter Type B1	3244 ft		\$7.50	\$8.10	\$26,276	
027760010	Concrete Sidewalk	19464 ft ²		\$1.75	\$1.89	\$36,787	
028410040	Concrete Wall Barrier	200 ft		\$31.28	\$33.78	\$6,756	
	Bridges	1 lump		\$1,476,000.00	\$1,594,080.00	\$1,594,080	
	Minor Structures	0 lump		\$0.00	\$0.00	\$0	
	Retaining Walls	0 lump		\$35.00	\$37.80	\$0	
	Lighting	0.3 miles		\$200,000.00	\$216,000.00	\$64,800	
	Signals	2 each		\$80,000.00	\$86,400.00	\$172,800	
	Drainage	1 lump		\$75,000.00	\$81,000.00	\$81,000	
	Signing / Striping	0.3 miles		\$100,000.00	\$108,000.00	\$32,400	
	RR Reconstruction	0 lump		\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20% lump				\$705,277	
	MOT / Temporary Traffic Control (5%)	5% lump				\$176,319	
					Total Construction Cost	\$3,526,387	
	Preconstruction Engineering Cost (9%)					\$317,375	
	Construction Engineering Cost (6%)					\$211,583	
	Municipal Utility Relocation Costs	1 lump		\$294,000.00	\$317,520.00	\$317,520	
	RIGHT OF WAY	1 lump		\$1,553,960	\$1,678,276.80	\$1,678,277	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 \$6,051,142
with 4 % inflation

11400 South EIS

10600 South I-15 Interchange w/ triple lefts

2005
4%

Updated: 5/13/04

Item No.	Item	Estimated Quantity	unit	03Average Unit Bid Price	Inflated Avg. Unit Bid Price for 2005	2005 Cost	Remarks
012850010	Mobilization	8%				\$425,017	
	Removals	1	lump	\$155,000.00	\$167,400.00	\$167,400	
023160020	Roadway Excavation	0	yd ³	\$3.18	\$3.43	\$0	
020560010	Borrow	5000	yd ³	\$5.68	\$6.13	\$30,672	
027850065	Asphalt Pavement	0	ft ²	\$2.50	\$2.70	\$0	
204000010	PCCP	265000	ft ²	\$3.00	\$3.24	\$858,600	
027710025	Concrete Curb & Gutter Type B1	9600	ft	\$7.50	\$8.10	\$77,760	
027760010	Concrete Sidewalk	10800	ft ²	\$1.75	\$1.89	\$20,412	
028410040	Concrete Wall Barrier	2600	ft	\$31.28	\$33.78	\$87,834	
	Bridges	1	lump	\$1,273,000.00	\$1,374,840.00	\$1,374,840	
	Minor Structures	1	lump	\$126,575.00	\$136,701.00	\$136,701	
	Retaining Walls	6375	ft ²	\$52.50	\$56.70	\$361,463	
	Lighting	1	lump	\$25,000.00	\$27,000.00	\$27,000	
	Signals	1	each	\$80,000.00	\$86,400.00	\$86,400	
	Drainage	1	lump	\$50,000.00	\$54,000.00	\$54,000	
	Signing / Striping	1	lump	\$10,000.00	\$10,800.00	\$10,800	
	RR Reconstruction	0	lump	\$0.00	\$0.00	\$0	
	20% Contingency for Construction Cost	20%	lump			\$1,062,542	
	MOT / Temporary Traffic Control (10%)	10%	lump			\$531,271	
					Total Construction Cost	\$5,312,712	
	Preconstruction Engineering Cost (9%)					\$478,144	
	Construction Engineering Cost (6%)					\$318,763	
	Municipal Utility Relocation Costs	1	lump	\$177,750.00	\$191,970.00	\$191,970	
	RIGHT OF WAY	1	lump	\$0	\$0.00	\$0	R/WCosts are calculated for yr 2005 @ 4% Anl Infl

Total for year 2005 with 4 % inflation **\$6,301,589**